Math 307 Quiz 6

November 5, 2014

Problem 1. Find the general solution to each of the following homogeneous ordinary differential equations with constant coefficients.

- (a) y'' 3y' 4y = 0
- (b) 2y'' + 4y' + 2y = 0
- (c) y'' 2y' + 2y = 0

Problem 2. Express the complex number

$$\frac{2+3i}{1-2i}$$

in a + ib form for some real numbers a, b.